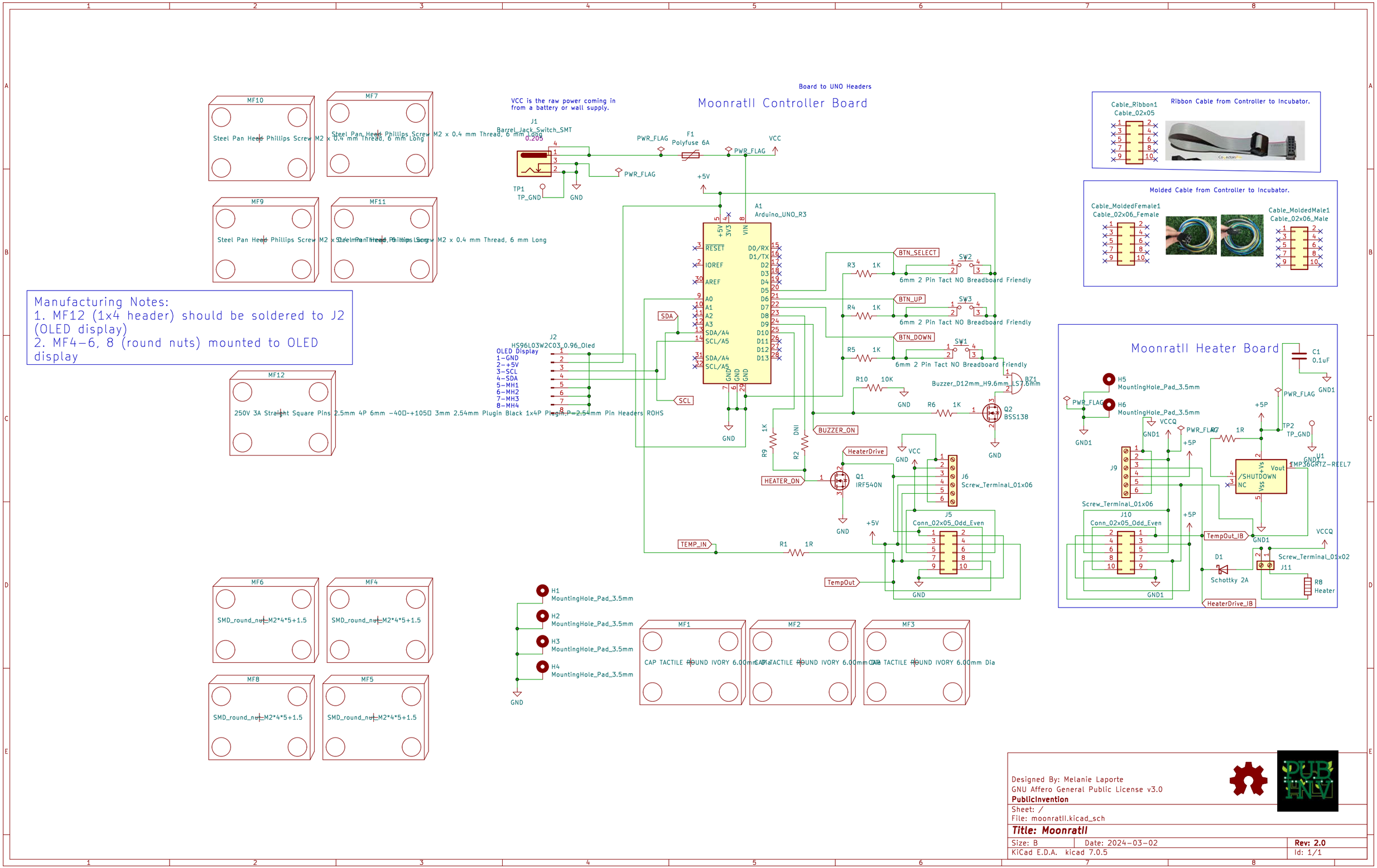
Board to UNO Headers
MoonratII Controller Board
VCC is the raw power coming in from a battery or wall supply.
J1
Barrel_Jack_Switch_SMT
0.205
TP1
TP_GND
GND
PWR_FLAG
F1
Polyfuse 6A
VCC
+5V
A1
Arduino_UNO_R3
RESET
IOREF
AREF
A0
A1
A2
A3
SDA/A4
SCL/A5
D0/RX
D1/TX
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
SDA
SCL
J2
HS96L03W2C03_0.96_Oled
OLED Display
1-GND
2-+5V
3-SCL
4-SDA
5-MH1
6-MH2
7-MH3
8-MH4
BTN_SELECT
BTN_UP
BTN_DOWN
SW2
SW3
SW1
R3 1K
R4 1K
R5 1K
6mm 2 Pin Tact NO Breadboard Friendly
R10 10K
R6 1K
BZ1
Buzzer_D12mm_H9.6mm_LS7.6mm
Q2
BSS138
BUZZER_ON
R9 1K
R2 DNI
HeaterDrive
HEATER_ON
Q1
IRF540N
J6
Screw_Terminal_01x06
J5
Conn_02x05_Odd_Even
TEMP_IN
R1 1R
TempOut
MF10
MF7
MF9
MF11
MF12
MF6
MF4
MF8
MF5
MF1
MF2
MF3
Steel Pan Head Phillips Screw M2 x 0.4 mm Thread, 6 mm Long
250V 3A Straight Square Pins 2.5mm 4P 6mm -40℃-+105℃ 3mm 2.54mm Plugin Black 1x4P Plugin,P=2.54mm Pin Headers ROHS
SMD_round_nut_M2*4*5+1.5
CAP TACTILE ROUND IVORY 6.00mm Dia
H1
MountingHole_Pad_3.5mm
H2
MountingHole_Pad_3.5mm
H3
MountingHole_Pad_3.5mm
H4
MountingHole_Pad_3.5mm
Manufacturing Notes:
1. MF12 (1x4 header) should be soldered to J2 (OLED display)
2. MF4-6, 8 (round nuts) mounted to OLED display
Ribbon Cable from Controller to Incubator.
Cable_Ribbon1
Cable_02x05
Molded Cable from Controller to Incubator.
Cable_MoldedFemale1
Cable_02x06_Female
Cable_MoldedMale1
Cable_02x06_Male
MoonratII Heater Board
C1
0.1uF
GND1
H5
MountingHole_Pad_3.5mm
H6
MountingHole_Pad_3.5mm
VCCQ
+5P
R7 1R
TP2
TP_GND
U1
LMP36GRTZ-REEL7
Vout
/SHUTDOWN
NC
Vs
J9
Screw_Terminal_01x06
J10
Conn_02x05_Odd_Even
TempOut_IB
D1
Schottky 2A
J11
Screw_Terminal_01x02
R8
Heater
HeaterDrive_IB
Designed By: Melanie Laporte
GNU Affero General Public License v3.0
PublicInvention
Sheet: /
File: moonratII.kicad_sch
Title: MoonratII
Size: B
Date: 2024-03-02
Rev: 2.0
KiCad E.D.A. kicad 7.0.5
Id: 1/1